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| <b>(51) International Patent Classification<sup>6</sup> :</b><br><b>C09K 11/06, H05B 33/14, C07D 401/00</b>  | <b>A1</b> | <b>(11) International Publication Number:</b> <b>WO 98/55561</b><br><b>(43) International Publication Date:</b> 10 December 1998 (10.12.98)   |
| <b>(21) International Application Number:</b> PCT/GB98/01587<br><b>(22) International Filing Date:</b> 1 June 1998 (01.06.98)<br><br><b>(30) Priority Data:</b><br>9711237.9                      2 June 1997 (02.06.97)                      GB<br><br><b>(71) Applicant (for all designated States except US):</b> ISIS INNOVATION LIMITED [GB/GB]; 2 South Parks Road, Oxford OX1 3UB (GB).<br><br><b>(72) Inventor; and</b><br><b>(75) Inventor/Applicant (for US only):</b> CHRISTOU, Victor [GB/GB]; The University of Oxford, Inorganic Chemistry Laboratory, South Parks Road, Oxford OX1 3QR (GB).<br><br><b>(74) Agent:</b> STEVENS, Ian, Edward; Stevens, Hewlett & Perkins, 1 St. Augustine's Place, Bristol BS1 4UD (GB). |           | <b>(81) Designated States:</b> AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG).<br><br><b>Published</b><br><i>With international search report.</i> |
| <b>(54) Title:</b> ORGANOMETALLIC COMPLEXES<br><br><b>(57) Abstract</b><br><p>Organometallic complexes comprising a trivalent lanthanide metal ion complexed with one or more polydentate ligands containing one or more pyrazolyl-derived groups, such as trispyrazolyl borate species, are useful in light emitting materials e.g., in electroluminescent flat panel displays. In the complexes, several classes of which are novel, a coordinate bond is formed between the metal and one of the nitrogen atoms of the pyrazolyl rings.</p>   |           |   |